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... Even using an efficient **approximate** algorithm, which requires $N \log N$... N-body problem using our grid system ALICE ... Section 2 presents the **Barnes-Hut** algorithm - an ...

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... cation totals of each vertex to **estimate** $\sum_{i=1}^N m_i^2$ values for ... options to MinEX PartGraph, jpg grid configuration, and ... The approach is to **approximate** the force ex ...

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DJ Edelsohn - INTERNATIONAL JOURNAL OF MODERN PHYSICS C, 1993 - worldscinet.com

... is no longer sufficient as an **estimate** for necessary ... requiring correction can utilize the **Barnes-Hut** test of ... are a useful alternative to grid-less simulations ...

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... 1) to heuristically **estimate** the effect of a ... Designing an Efficient Partitioning Algorithm for Grid Environments 283 ... The approach is to **approximate** the force ...

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S Dwarkadas, K Gharachorloo, L Kontothanassis, DJ ... - Proceedings of the Fifth International Symposium on High- ..., 1999 - doi. ieeecomputersociety.org

... It is again hard to **estimate** the performance impact of ... Problem (Data set) Size Time (sec.) **Barnes-Hut** 32K bodies ... Water-nsquared), a uniform 3-D grid of cells ...

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... 1.1 Distributed Shared Memory : : : : 2 ... 3.2 Speedups for Barnes Hut : : : : 46 ...

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J Dubinski - Arxiv preprint astro-ph/0603097, 1996 - arxiv.org

... density, pressure and temperature at grid elements in ... communication cost in the load estimate may improve ... The code shows an approximate linear scaling versus ...

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... of the feasibility of the design, allows one to accurately estimate both the ... is granted provided that the copies are not made or distributed for direct ...

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RD Skeel, I Tezcan, DJ Hardy - Journal of Computational Chemistry, 2002 - dx.doi.org
... of an interaction, the result is an ($N \log N$) Barnes–Hut type of ... we approximate a softened $1/r$ on a grid with spacing h , we approximate a further ...

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... within a localized region to estimate impact on ... additions, inner-products and hierarchical approximate matrix-vector ... the dimension along which the grid is par ...

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